### Amendments to the Claims

1 (currently amended). A production method for aminophosphonic acid derivatives comprising reacting an α-iminophosphonate ester represented by the formula below [Chemical Formula 1]

$$R^1O \bigcirc P$$
 $NR^2$ 

, wherein  $R^1$  represents an alkyl group and  $R^2$  represents a protective group for an amino group, and a nucleophilic agent in the presence of a chiral copper catalyst represented by the formula  $\frac{1}{2}$ 

# [Chemical Formula 2]

, wherein  $R^3$  and  $R^4$ , may be identical or different, represent an aryl group or an aralkyl group.

2 (currently amended). The production method of claim 1, wherein the nucleophilic agent is a silyl enol ether represented by the formula below

## [Chemical Formula 3]

$$\begin{array}{ccc}
R^5 & OSi(R^8)_3 \\
R^6 & R^7
\end{array}$$

, wherein R<sup>5</sup> and R<sup>6</sup>, may be identical or different, represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, R<sup>7</sup> represents an alkyl group, aryl group, aralkyl group, alkoxy group or sulfide group represented by -SR<sup>9</sup>, wherein R<sup>9</sup>

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represents an alkyl group or an aryl group, and R<sup>8</sup>, may be identical or different, represents an alkyl group or a phenyl group.

3 (currently amended). The production method of claim 1-or 2, wherein a compound having an activated proton is added to the reaction medium as an additive.

4 (original). The production method of claim 3, wherein the additive is hexafluoro isopropyl alcohol (HFIP).

5 (currently amended). The production method of <u>claim 1</u> any one of <u>claims 1-4</u>, wherein the aminophosphonic acid derivative represented by the formula <del>below:</del> <del>[Chemical Formula 4]</del>

, wherein, R<sup>1</sup> represents an alkyl group, R<sup>2</sup> represents a protective group for an amino group, R<sup>3</sup> and R<sup>4</sup>, which may be identical or different, each represent an aryl group or an aralkyl group, R<sup>5</sup> and R<sup>6</sup>, which may be identical or different, each represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, and R<sup>7</sup> represents an alkyl group, aryl group, aralkyl group or sulfide group represented by ·SR<sup>9</sup>, wherein R<sup>9</sup> represents an alkyl group or an aryl group R<sup>1</sup> to R<sup>7</sup> are as defined as above.

6 (new). The production method of claim 2, wherein a compound having an activated proton is added to the reaction medium as an additive.

7 (new). The production method of claim 6, wherein the additive is hexafluoro isopropyl alcohol (HFIP).

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8 (new). The production method of claim 2, wherein the aminophosphonic acid derivative represented by the formula

$$R^{1}O \bigvee_{P}^{0} R^{5}R^{6}$$

, wherein, R<sup>1</sup> represents an alkyl group, R<sup>2</sup> represents a protective group for an amino group, R<sup>3</sup> and R<sup>4</sup>, which may be identical or different, each represent an aryl group or an aralkyl group, R<sup>5</sup> and R<sup>6</sup>, which may be identical or different, each represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, and R<sup>7</sup> represents an alkyl group, aryl group, aralkyl group, alkoxy group or sulfide group represented by SR<sup>9</sup>, wherein R<sup>9</sup> represents an alkyl group or an aryl group.

9 (new). The production method of claim 3, wherein the aminophosphonic acid derivative represented by the formula

$$R^{1}O \cap P \cap R^{5}R^{6}$$
 $R^{1}O \cap P \cap R^{5}R^{6}$ 
 $R^{1}O \cap R^{5}R^{6}R^{6}$ 
 $R^{1}$ 

, wherein, R<sup>1</sup> represents an alkyl group, R<sup>2</sup> represents a protective group for an amino group, R<sup>3</sup> and R<sup>4</sup>, which may be identical or different, each represent an aryl group or an aralkyl group, R<sup>5</sup> and R<sup>6</sup>, which may be identical or different, each represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, and R<sup>7</sup> represents an alkyl group, aryl group, aralkyl group, alkoxy group or sulfide group represented by ·SR<sup>9</sup>, wherein R<sup>9</sup> represents an alkyl group or an aryl group.

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10 (new). The production method of claim 4, wherein the aminophosphonic acid derivative represented by the formula

$$R^{1}O \cap P \cap R^{5}R^{6}$$
 $R^{7}O \cap R^{1}O \cap R^{5}R^{6}$ 
 $R^{1}O \cap R^{5}R^{6} \cap R^{7}$ 
 $R^{1}O \cap R^{5}R^{6}$ 
 $R^{1}O \cap R^{5$ 

, wherein,  $R^1$  represents an alkyl group,  $R^2$  represents a protective group for an amino group,  $R^3$  and  $R^4$ , which may be identical or different, each represent an aryl group or an aralkyl group,  $R^5$  and  $R^6$ , which may be identical or different, each represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, and  $R^7$  represents an alkyl group, aryl group, aralkyl group, alkoxy group or sulfide group represented by  $SR^9$ , wherein  $R^9$  represents an alkyl group or an aryl group.

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